

FIG. 1 (1 of 2)

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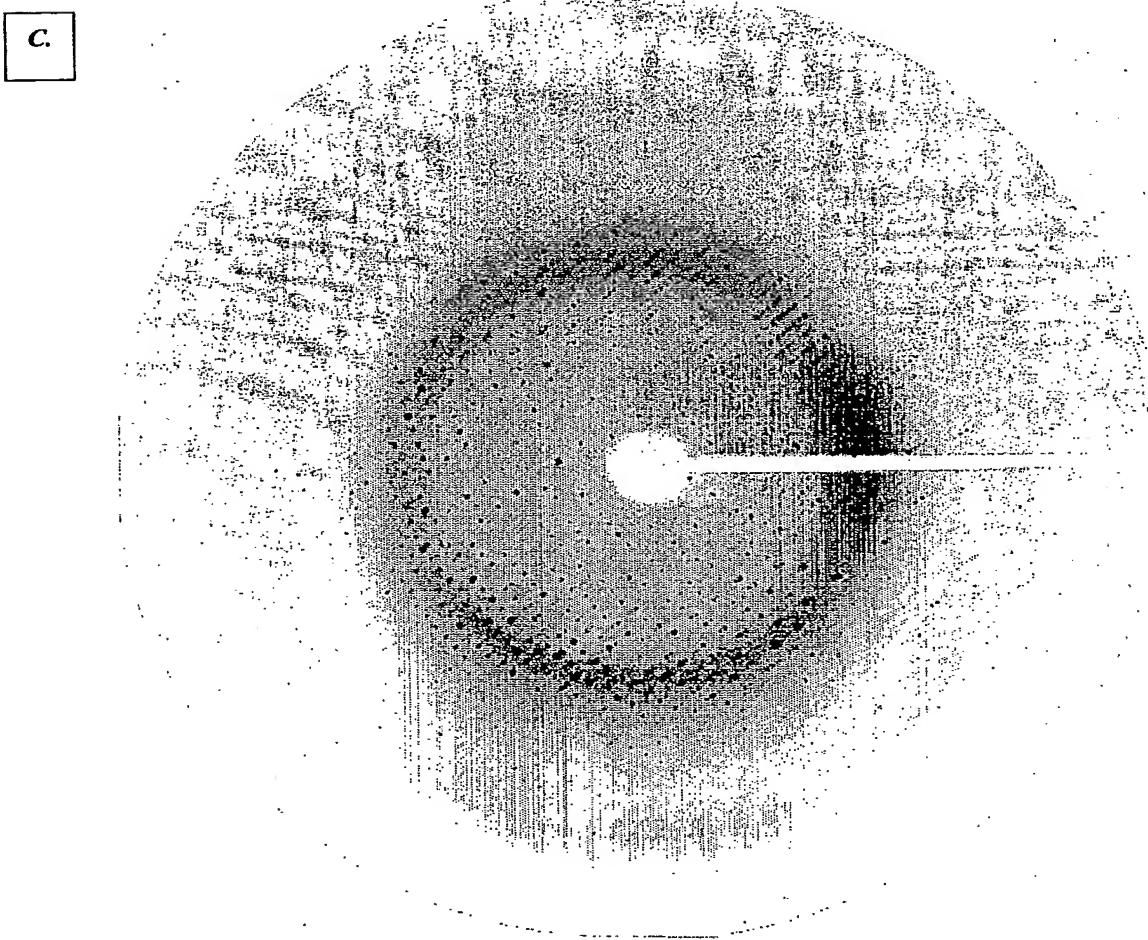
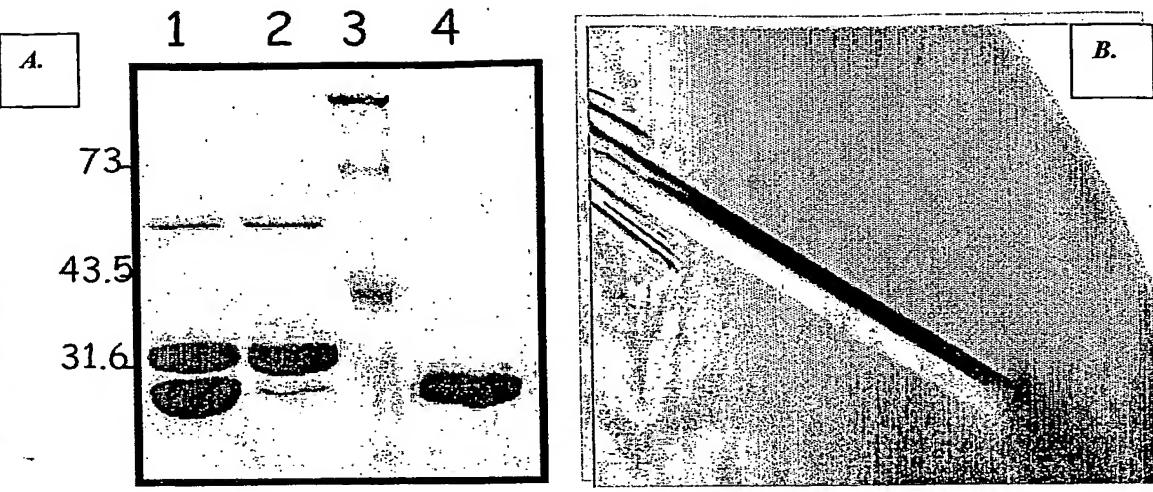


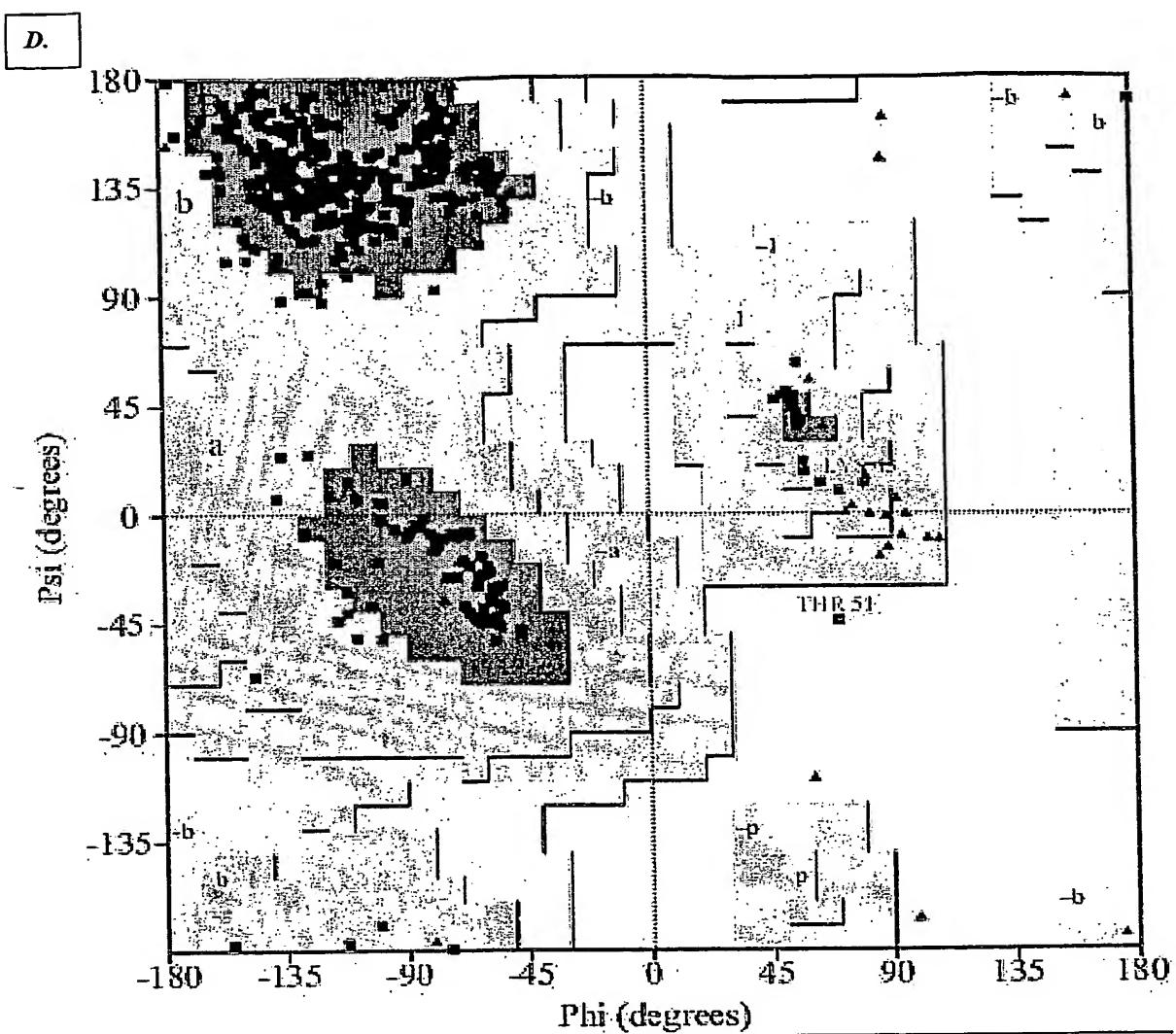
FIG. 1 (2 of 2)

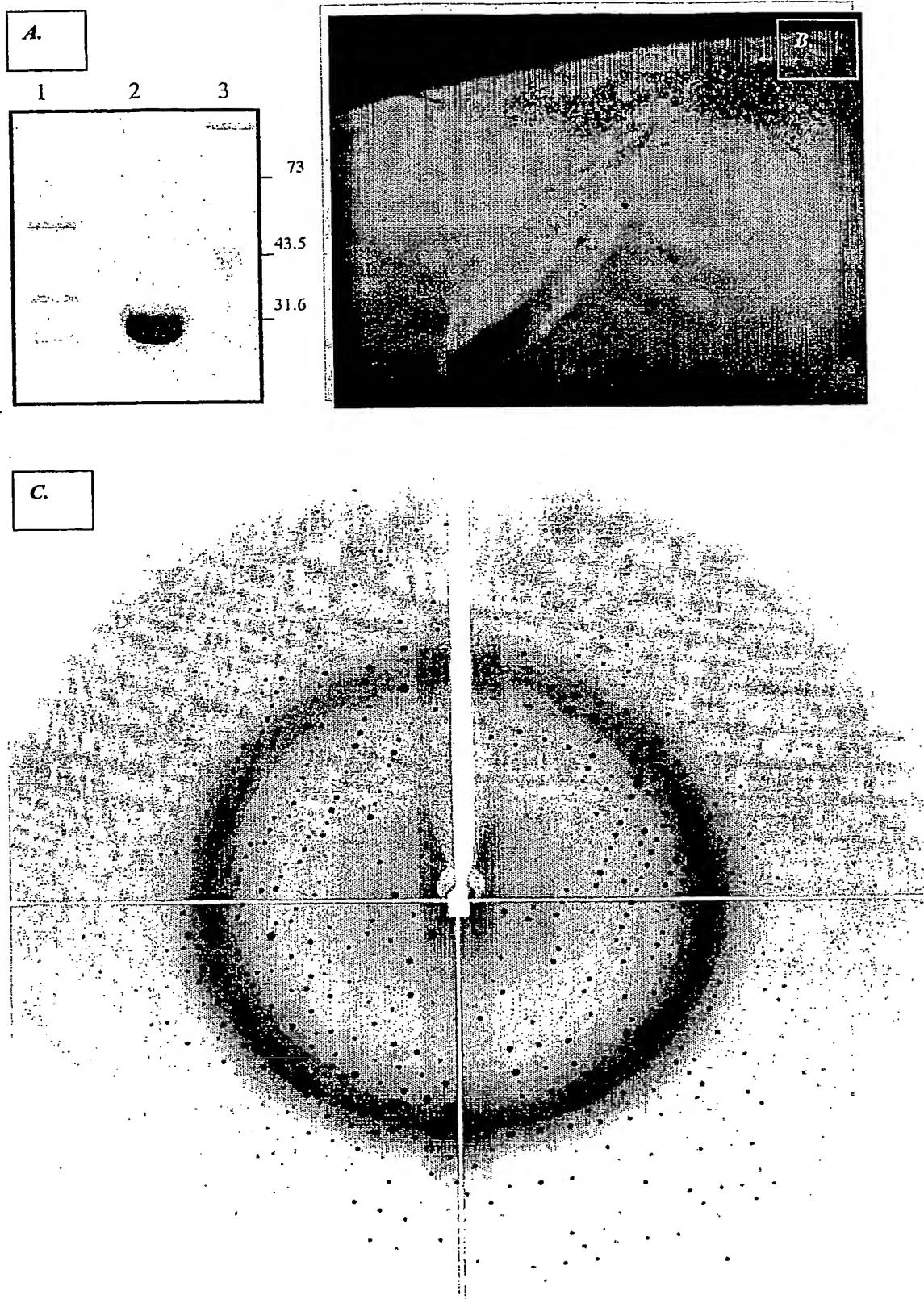
FIG. 2 (1 of 2)

FIG. 2 (2 of 2)

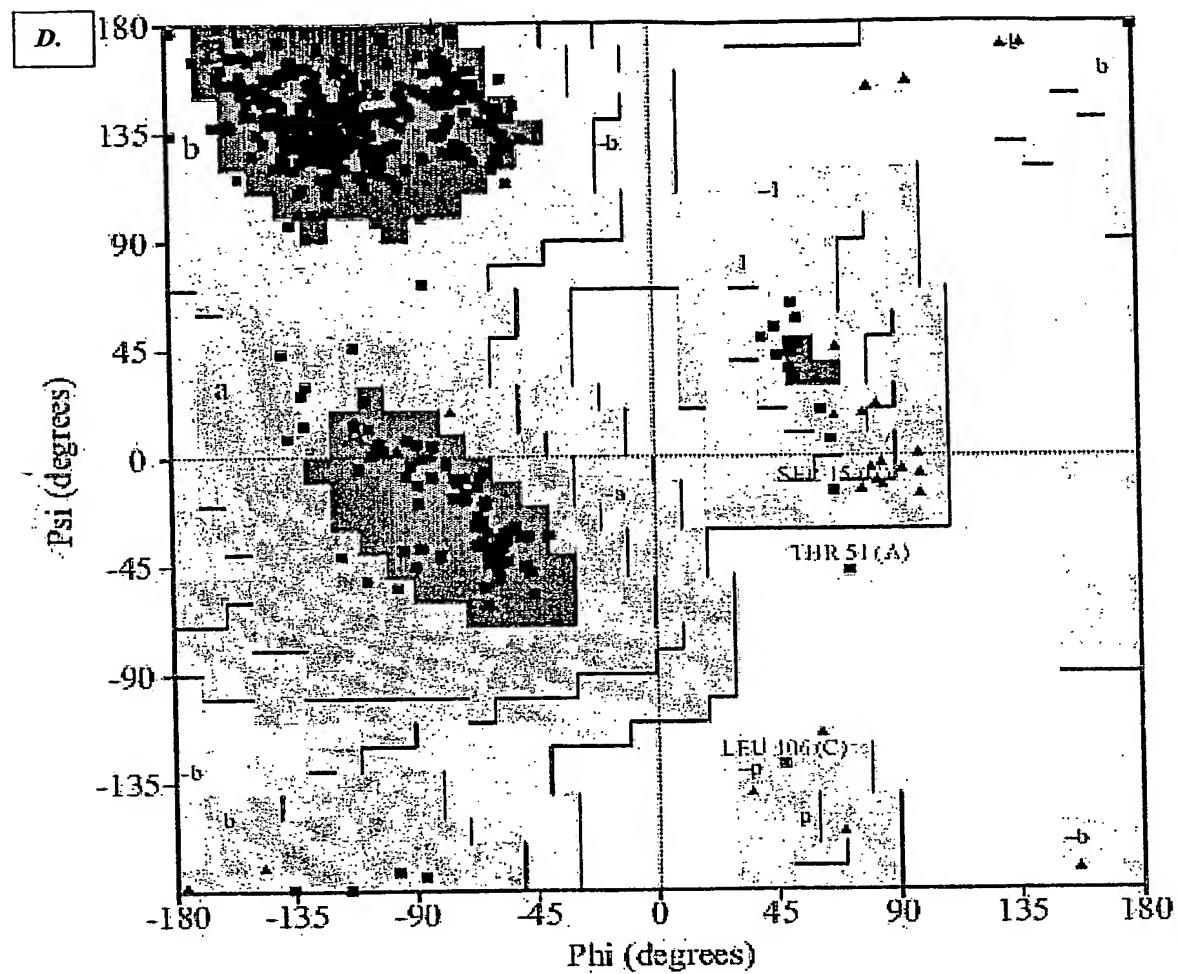


FIG. 3 (1 of 2)

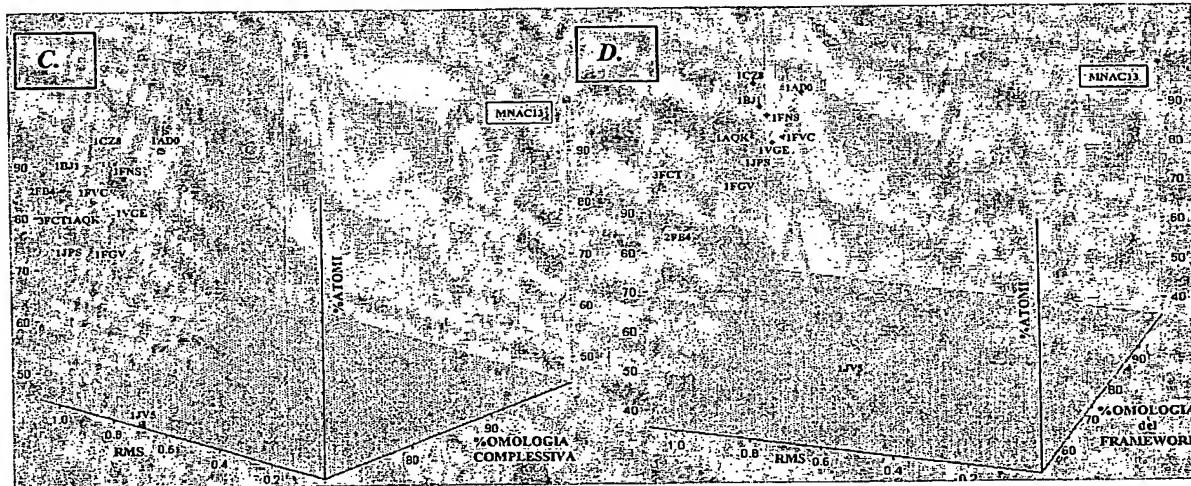
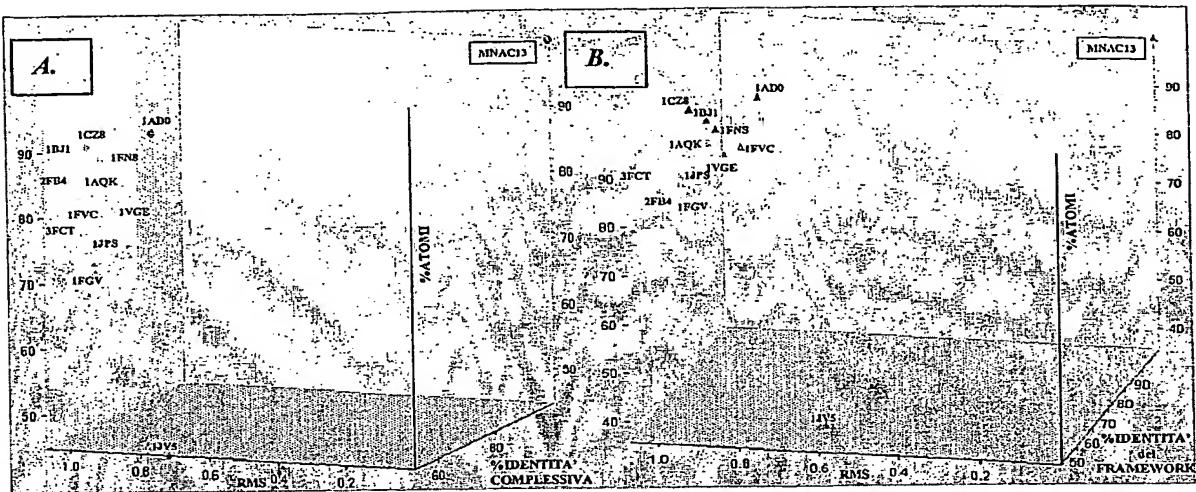
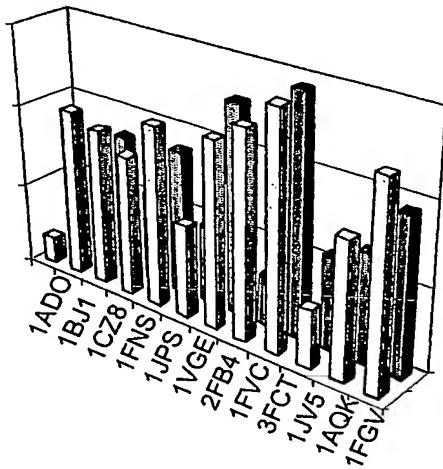
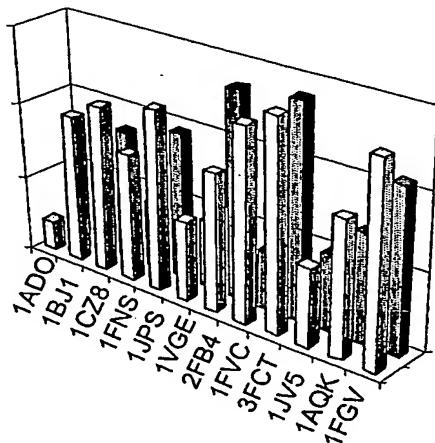
**E. identity with MNAC13****F. homology with MNAC13**

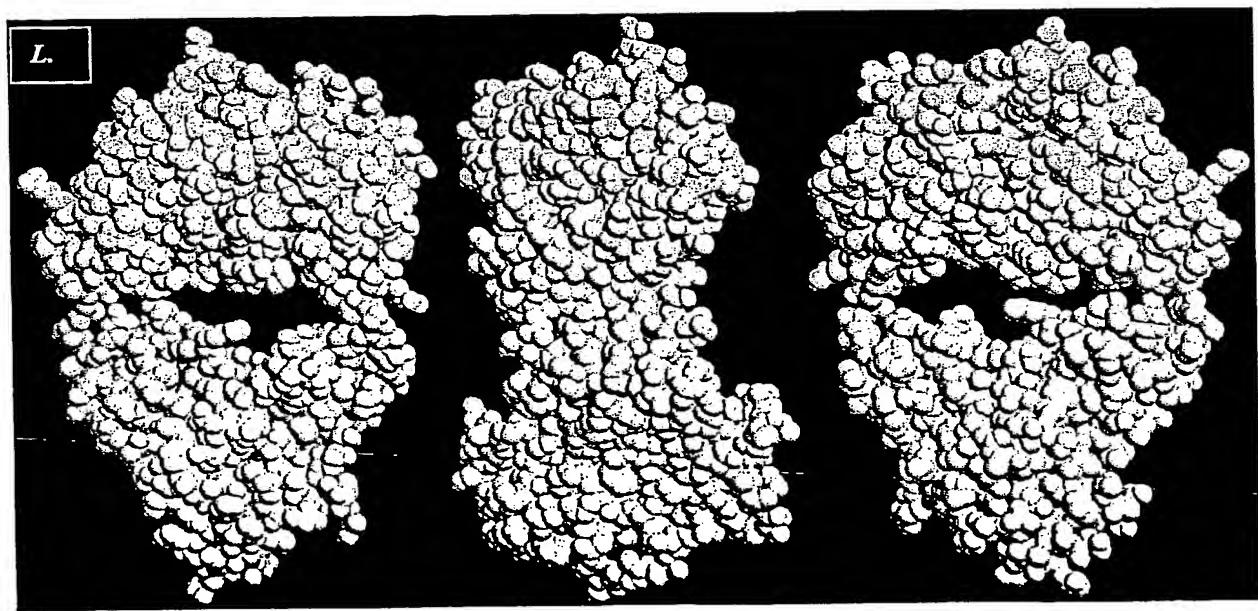
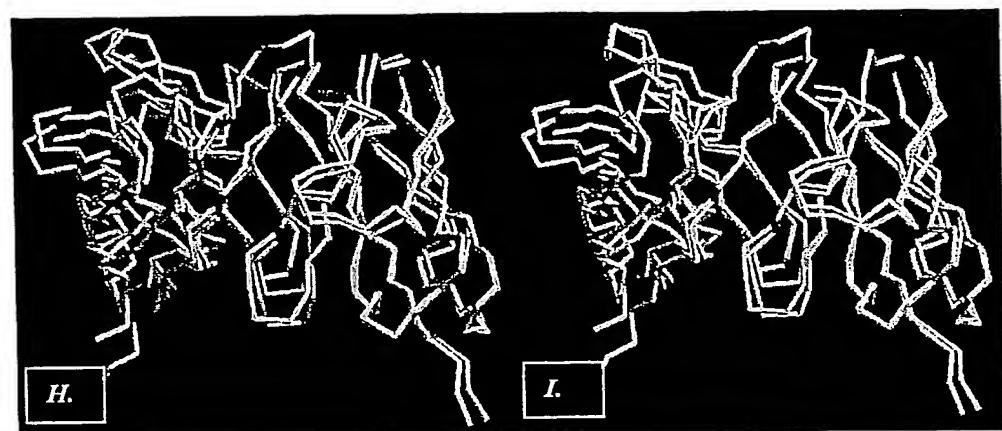
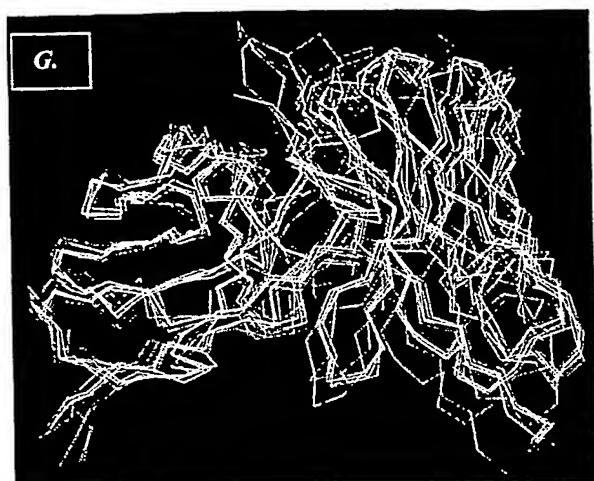
FIG. 3 (2 of 2)

FIG. 4 (1 of 2)

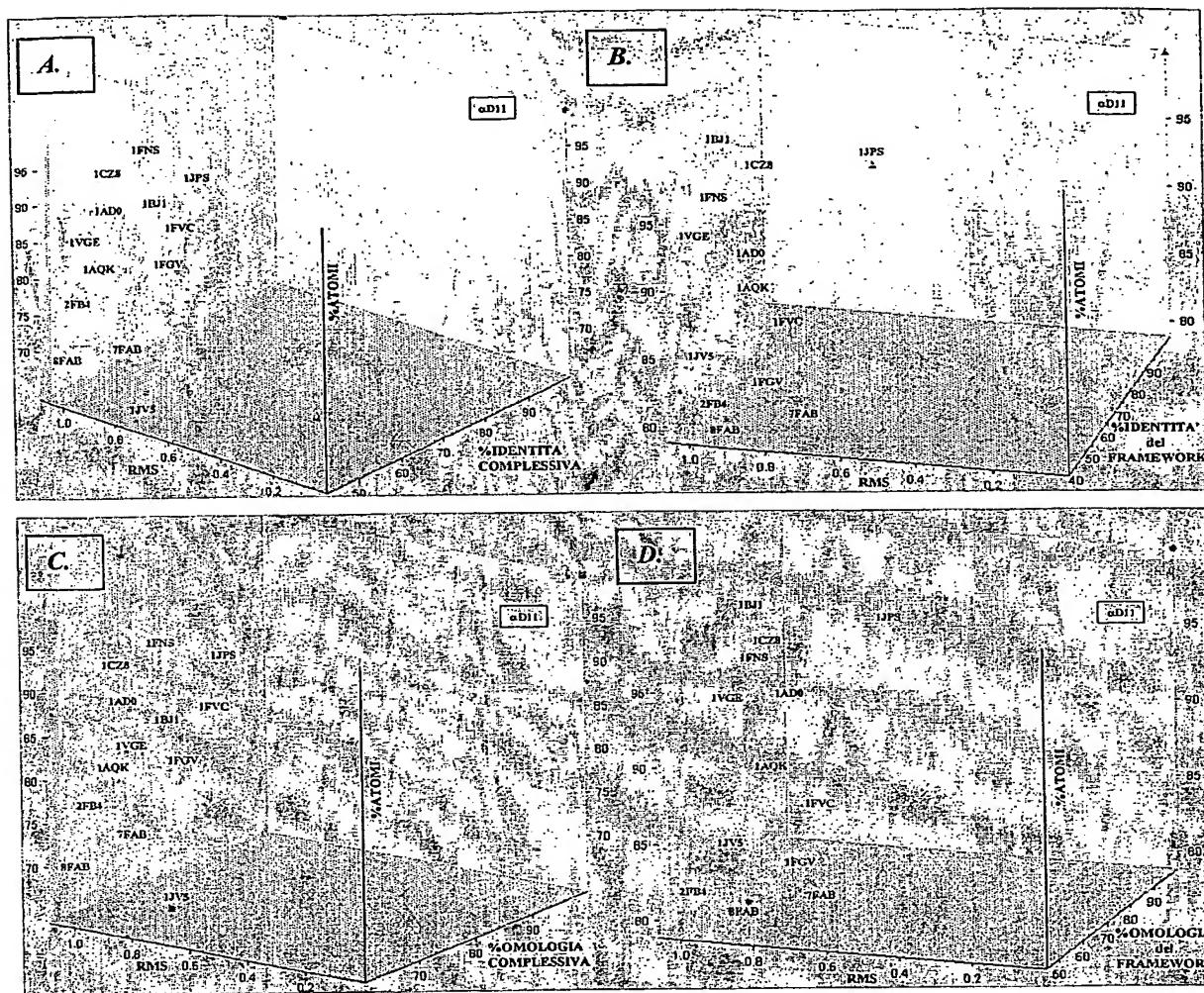
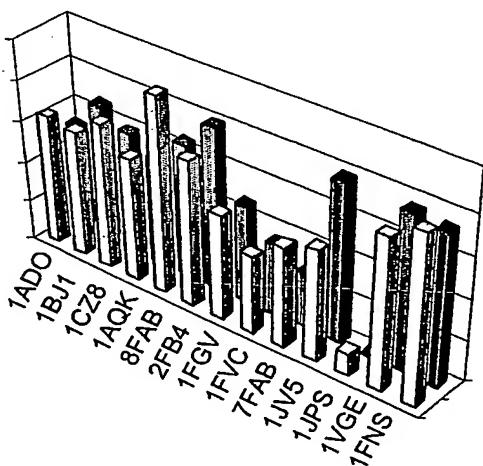
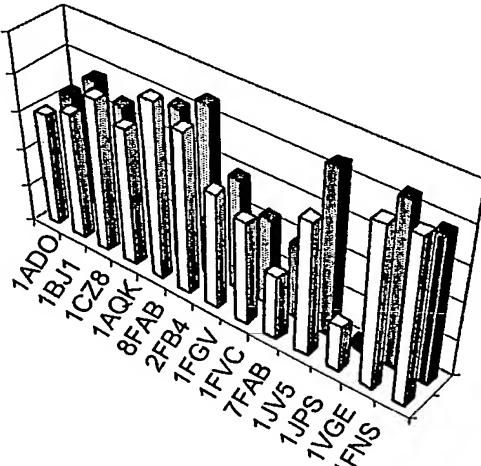
A. identity with $\alpha D11$ B. homology with $\alpha D11$ 

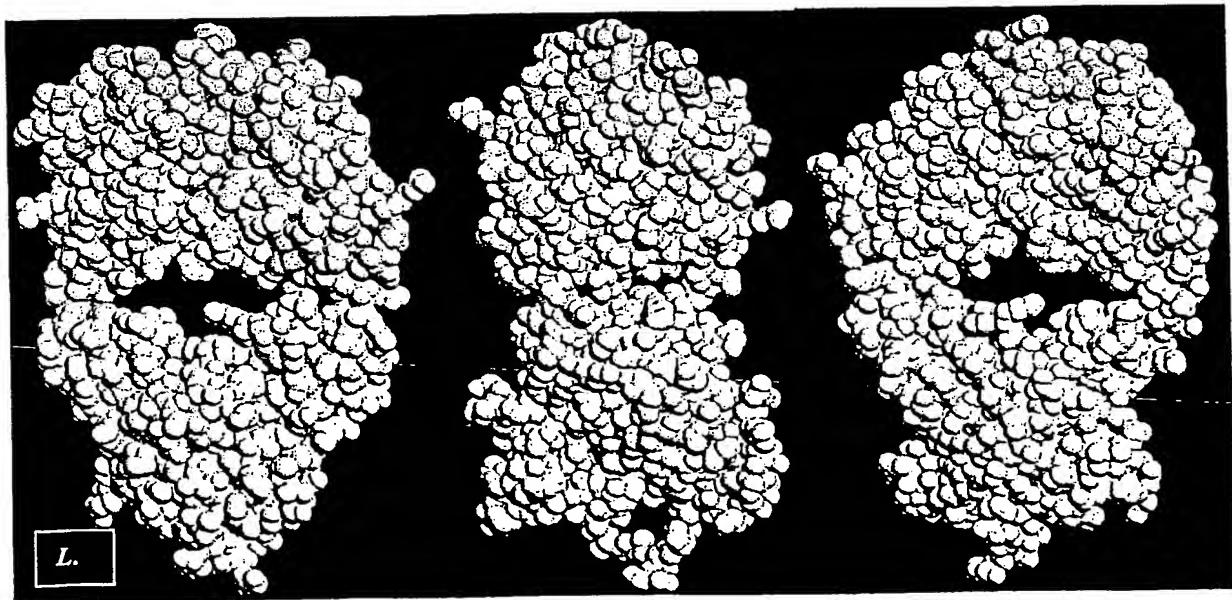
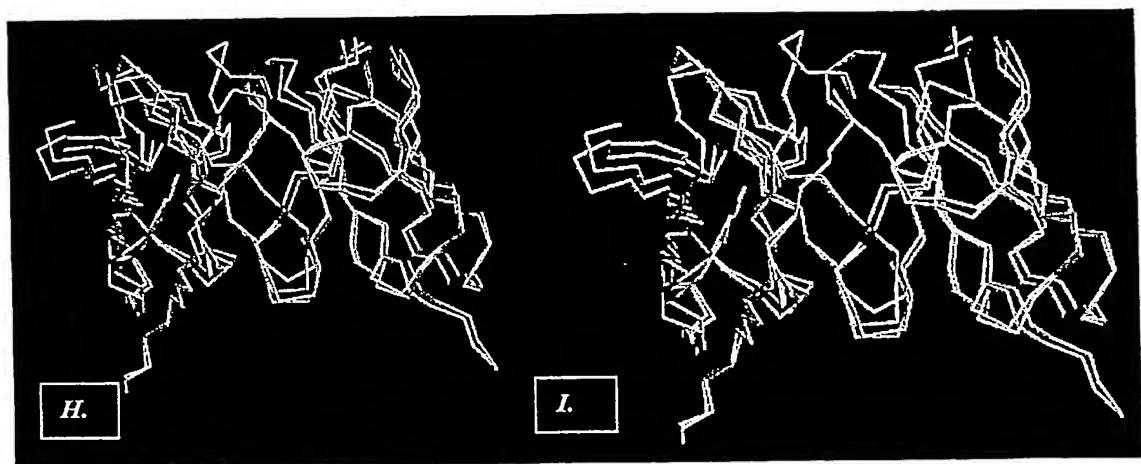
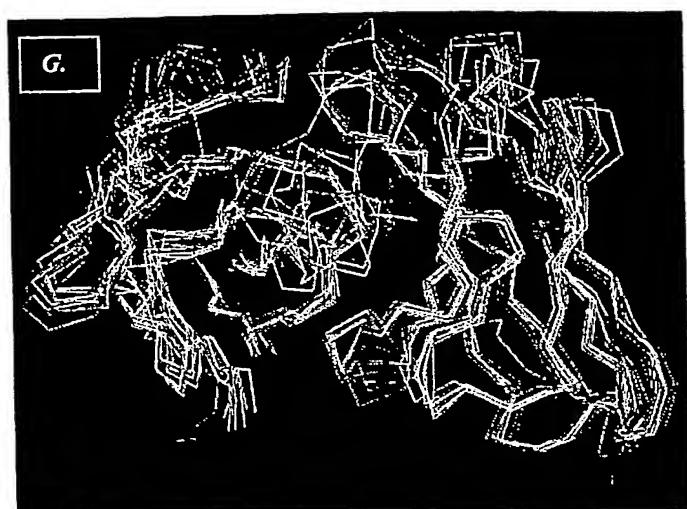
FIG. 4 (2 of 2)

FIG. 5

A. Fv fragment of heavy chain

B. Fv fragment of light chain

	20	40	
MNAC13	DIVLTQSPA IMSASLGE EVTLTCSASSSVSYMHWYQQKSGTSPKLLIYTTSNL		
1AD0	QTVLTQSPSSLSVSGDRV TITCRASSSVTYIH WYQQKPG L APKSLIYATSNL		
Hum MNAC13	DIVLTQSPSSLSASVGDRV TITCSASSSVSYMHWYQQKPGQ A PKLLIYTTSNL		
	60	80	100
MNAC13	ASGVPSRFSGSGSGTFYSLT ISSVEAEDAADYYC HQWSSYPWTFGGGTKEIK		
1AD0	ASGVPSRFSGSGSGT DYTFTISSLQ PEDIATYYCQHWSSKPP T GQG T KVEVK		
Hum MNAC13	ASGVPSRFSGSGSGT DYTLTISSLQ PED V ATYYCQHWSSYPWTFGGGTKEIK		

FIG. 6

A. Fv fragment of heavy chain

B. Fv fragment of light chain

	20		40
αD11	DIQMTQSPASLSASLGETVTIECRASEDIYNALAWYQQKPGKSPQLLIYNTDTL 		
1JPS	DIQMTQSPSSLSASVGDRVТИTCRASRDIKSYLNWYQQKPGKAPKVLIYYATSL		
Hum αD11	DIQMTQSPSSLSASVGDRVТИT<u>CRASEDIYNALAWYQQKPGKAPKLLIYNTDTL</u>		
	60	80	100
αD11	HTGVPSRFSGSGSGTQYSLKINSLOSEDVASYFCQHYFHYPRTFGGGTKLELK 		
1JPS	AEGVPSRFSGSGSGTDYTLTISSLQPEDFATYYCLQHGESPWTFGQGTVKEIK		
Hum αD11	<u>HTGVPSRFSGSGSGTDYTLTISSLQPEDFATYFCQHYFHYPRTFGQGTVKEIK</u>		

FIG. 7 (1 of 4)

A) MNAC13 VL

GAC ATT GTT CTC TCC CAG TCT CCA GCA ATC ATG TCT GCA TCT CTA GGG GAG GAG ATC ACC CTA ACC TGC AGT GCC AGC
 TTG AGT GTA AGT TAC ATG CAC TGG TAC CAG CAG AAG TCA GGC ACT TCT CCC AAG CTC TTG ATT TAT ACT ACA TCC AAC
 CTG GCT TCT GCA GTC CCT TCT CGC TTC AGT GGC AGT GGG TCT GGG ACC TTT TAT TCT CTC ACA ATC AGT AGT GTG GAG
 GCT GAA GAT GCT GCC GAT TAT TAC TGC CAT CAG TGG AGT AGT TAT CCA TGG ACG TTC GGT GGA GGC ACC AAG CTG GAA
 ATC AAA

B) MNAC13 VH

GAG GTG AAG CTG GTG GAG TCT GGG GGA GGT TTA GTG CAG CCT GGA GGG TCC CTG AAA CTC TCC TGT GCA GCC TCT GGA
 TTC ACT TTC AGT ACC TAT ACC ATG TCT TGG GCT CGC CAG ACA CCA GAG AAG AGG CTG GAG TGG GTC GCA TAC ATT AGT
 AAA GGT GGT AGT ACC TAC TAT CCA GAC ACT GTA AAG GGC CGA TTC ACC ATC TCC AGG GAC AAT GCG AAG AAC ACC
 CTG TAC CTG CAA ATG AGC AGT CTG AAG TCT GAG GAC ACG GCC TTG TAT TAC TGT GCA AGA GGG GCT ATG TAT GGT AAC
 GAT TTT TTC TAT CCT ATG GAC TAC TGG GGT CAA GGA ACC TCA GTC ACC GTC TCC TCA

C) MNAC13 GRAFTED VII

FIG. 7 (2 of 4)

D I V L T Q S P S S L S A S V G D R V T I T C S
 5' ACA GCC GTG CAC TCC GAC ATT GTT CTC ACC AGC CTG TCT GCG TCT GTC GGG GAC CGG GTC ACC ATT
OLIGO L1S CAG TCA AGC CCC CTG CTG ATT TAT ACT ACA TCC AAC CTG
 3'
 A S S S V S Y M H W Y Q K P G K A P K L L I Y T T S N L
 5' CGG TCG AGA TCA CAC TCA ATG TAC GTG ACC ATG GTC GTC TTC GGT CCG
OLIGO L2AS
 3'
 A S G V P S R F S G S G T D Y T L T I S S L Q P E D F
 5' GCT TCT GGA GTC CCT TCT CGA AGA CCT CAG GGA AGA GCG AAG TCG CCG TCA CCC AGA CCC TGG CTA ATA TGG GAG TGT TAG TCA TCA GAC
OLIGO L4AS
 3'
 A T Y C H Q W S S Y P W T F G G G T K V E I K
 5' GCC ACC TAT TAC TGC CAT CAG TGG AGT AGT TAT CCA TGG ACC ACC TCA TCA ATA GGT ACC TGC AAG CCA CCT CCG TGG TTC CAC CTT TAT TTT GCA CTC ATC TTA TCT
OLIGO L6AS
 3'
 AGA TTG AAT
 3' 5'

FIG. 7 (3 of 4)

D) MNAC13 GRAFTED VH

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<p>E V Q L E S G G G L V Q P G G S L R L S C A A 5' ACA GGC GCG CAC TCC GAG GTG CAG CTG GAG TCT GGG GGA GGT TTA GTG CAG CCT GGA GGG TCC CCC AGG GAC GCG GAG ACA CGT CGG 3'</p> <p>S G F T F S T Y T M S W A R Q A P G K G L E W V A Y I S K 5' AGA CCT AAG TGA AAG TCA TGG ATA TGG TAC TCG ACC CGA GCG GTC CGG GGT CCC 3'</p> <p>G G G S T Y P D T V K G R F T I S R D N S K N T L Y L Q 5' GGT GGT GGT AGT ACC TAC TAT CCA GAC CCA TCA TGG ATG ATA GGT CTG TGA CAT TTC CCG GCT AAG TGG TAG AGG TCC CTG TTG AGC TTC TTG GAC ATG GAC GTT 3'</p> <p>M N S L R A E D S A V Y C A R G A M F G N D F F P M D 5' ATG AAC AGT CTG CGG GCT GAG GAC AGC GCC GTC TAT TAC TGT GCA AGA GGG GCT ATG TTT ACA CGT TCT CCC CGA TAC AAA CCA TTG CTA AAA AAG AAA GGA TAC CTG 3'</p> <p>R W G Q G T L V T V S 3' GCG ACC CCA GTT CCT TGG GAC CAG TGG CAG AGG 5'</p>	<p>OLIGO H1S</p> <p>TGG GCT CGG CAG GCG CCA GGG AAG GGG CTG GAG TGG GTC GCA TAC ATT AGT AAA</p> <p>OLIGO H2AS</p> <p>AAG AAC ACC CTG TAC CTG CAA</p> <p>AAG AAC ACC CTG TAC CTG CAA</p> <p>OLIGO H4AS</p> <p>OLIGO H5S</p> <p>ACA CGT TCT CCC CGA TAC AAA CCA TTG CTA AAA AAG AAA GGA TAC CTG</p> <p>OLIGO H6AS</p>
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FIG. 7 (4 of 4)

E) OLIGOs TO SYNTHESIZE MNAC13 VL

OLIGO L1S
ACA CGC GTG CAC TCC GAC ATT GTT CTC ACC CAG TCT CCA TCC AGC CTG TCT GCG TCT GTC GGG GAC CCG GTC ACC ATT

OLIGO L2AS
GCC TGG CCTT CTG CTG CTA CCA GTG CAT GTA ACT CAC ACT AGA GTT GCT GCA GGT ATT GGT GAC CCG GTC CCC GAC

OLIGO L3S
TGG TAC CAG CAG AAG CCA GGC AAG GCT CCC AAG CTC CTG ATT TAT ACT ACA TCC AAC CTG GCT TCT GGA GTC CCT TCT

OLIGO L4AS
CAG ACT ACT GAT TGT GAG GGT ATA ATC GGT CCC AGA CCC ACT GCC GCT GAA GCG AGA AGG GAC TCC AGA AGC CAG

OLIGO L5S
ACC CTC ACA ATC ACT AGT CTG CAG CCT GAA GAT TTC GCC ACC TAT TAC TGC CAT CAG TGG AGT AGT TAT CCA TGG ACG

OLIGO L6AS
TAA GTT AGA TCT ATT CTA CTC ACG TTT TAT TTC CAC CTT GGT GCC TCC ACC GAA CGT CCA TGG ATA ACT ACT CCA

F) OLIGOs TO SYNTHESIZE MNAC13 VH

OLIGO H1S
ACA GCG CAC TCC GAG GTG CAG CTG CTG GAG TCT GGG GGA GGT TTA GTG CAG CCT GGA GGG TCC CTG CGC CTC TCC TGT

OLIGO H2AS
CCC TGG GGC CTG GCG AGC CCA GCT CAT GGT ACT GAA AGT GAA TCC AGA GGC TGC ACA GGA GAG GCG CAG GGA CCC

OLIGO H3S
TGG GCT CGC CAG GCC CCA GGG AAG GGG CTG GAG TGG GTC GCA TAC ATT AGT AAA GGT GGT AGT ACC TAC TAT CCA GAC

OLIGO H4AS
TTG CAG GTA CAG GGT GTT CTT CGA GTT GTC CCT GGA GAT GGT GAA TCG GCC CCTT TAC AGT GTC TGG ATA GTA GGT ACT ACC

OLIGO H5S
AAG AAC ACC CTG TAC CTG CAA ATG AAC AGT CTG CGG GCT GAG GAC AGC GCC GTC TAT TAC TGT GCA AGA GGG GCT ATG TTT

OLIGO H6AS
GGA GAC GGT GAC CAG GGT TTG ACC CCA GCG GTC CAT AGG AAA GAA AAA ATC GTT ACC CCC CAT AGC CCC TCT TGC ACA

FIG. 8 (1 of 4)

A) cDII VI

GAC ATC CAG ATG ACC CAG TCT CCA GCT TCC CTG TCT GCA TCT CTG GAA ACT GTC ACC ATC GAA TGT CGA GCA AGT GAG GAC ATT
 TAT AAT GCT TTA GCA TGG TAT CAG CAG AAG CCA GGG AAA TCT CCT CAG CTC CTG ATC TAT AAT ACA GAT ACC TTG CAT ACT GGG GTC
 CCA TCA CGA TTC AGT GGC AGT GGA TCT GGT ACA CAA TAT TCT CTC AAG ATA AAC AGC CTG CAA TCT GAA GAT GTC GCA AGT TAT TIC
 TGT CAG CAC TAT TTC CAT TAT CCT CGG ACG TTC GGT GGA GGG ACC AAG CTG GAG ATC AAA

B) cDII VH

CAG GTG CAG CTG GTG GAA TCA GGA CCT GGT CTG GTG CAG CCC TCA CAG ACC CTG TCC CTC ACC TGC ACT GTC TCT GGG TTC TCA CTA
 ACC AAC AAC AAT GTG AAC TGG GCT ACA CGA CAG GCT ACA GGA AGA GGT CTG GAG TGG AGT GGA GGA GTC TGG GCT GGT GGA GCC ACA GAT
 TAC AAT TCA GCT CTC AAA TCC CGA CTG ACC ATC ACT AGG GAC ACC TCC AAG AGC CAC GTT TTC TTA AAA ATG CAC ATG CTG CAA
 TCT GAA GAC ACA GCC ACT TAC TAC TGT GCC AGA GAC GGG GGG TAT AGC AGC TCT ACC CTC TAT GCT ATG GAT GCC TGG GGT CAA GGA
 ACT TCG GTC ACC GTC TCC TCA

FIG. 8 (2 of 4)

O₂DII GRAFTED VI.

D I Q M T Q S P S S L S A S V G D R V T I T C R 3'
 5' AGC GCC GTC CAC TCC GAC ATC CAG ATG ACC CAG TCT CCA TCT CCT CGT TCT GCA TCT GTG GGA GAC CGC GTC ACC ATC
 3'

A S E D I Y N A L A W Y Q Q K P G K A P K L L I Y N T D T 3'
 5' CGT TCA CTC CTG TAA ATA TTA CGA AAT CGT ACC ATA GTC GTC TTC GGT
 3' OLIGO L2AS

L H T G V P S R F S G S G S G T D Y T L T I S S L Q P E D 3'
 5' TTC CAT ACA GGG GTC CCA AAC GTA TGT CCC CAG GGT AGT GCT AAG TCA CCG TCA CCT AGA CCA TGT CTG ATA TGA GAG TGC TAT TCG TCG GAC
 3' OLIGO L4AS

F A T Y F C Q H Y F H Y P R T F G Q G T K V E I K 3'
 5' TTC GCA ACT TAT TTC TGT CAG CAC TAT TTC CAT TAT CCT CGG
 3' GTG ATA AAG GTA ATA GGA GCC TGC AAG CCA GTT CCC TGG TTC CAC CTC TAG TTT GCA CTC ATC TTA
 3' OLIGO L6AS

AGA TCT AAC
 3' 5'

FIG. 8 (3 of 4)

D) αDII GRAFTED VH

E V Q L V E S G G G L V Q P G G S L R L S C A A 3'
 5' ACA GGC GCG CAC TCC GAG GTG CAG CTG GTG GAA TCA GGA GGT CCTG CTC GAG CCC GCA GGG TCC CTG CGC CTC AGC TGC
OLIGO H1S CCC AGG GAC GCG GAG TCG ACG CGA CGG CGG 5'
 3'

S G F S L T N N V N W V R Q A P G K G L E W V G G V W A 3'
 5' OLIGO H3S AAC TGG GTT CGA CAG CCT CCA GGA AAA CCT CTG GAG TGG GTG GGA GGA GTC GTC TGG CCT
AGA CCG AAG AGT GAT TGG TTG TTG TTA CAC TTG ACC CAA GCT GTC CGA GGT CCT 5'
OLIGO H2AS

G G A T D Y N S A L K S R F T I S R D N S K N T A Y L Q M 3'
 5' GGT GGA GCC ACA GAT TAC ATT TCA CCT CGG TGT CTA ATG TTA AGT CGA GAG TTT AGG GCT AAG TGG TAG TCA GCG CTG TTG AGG TTC TTG TGT CGA ATG ATT GTT TAC
OLIGO H4AS 3'

N S L R A E D T A V Y Y C A R D G G Y S S S T L Y A M D A 3'
 5' AAC AGT CTG CGC GCT GAA GAC ACA GCC GTC TAC TAC TGT GGC AGA GAC GGG GGC TAT AGC CGG TCT CTG CCC CCG ATA TCG TCG AGA TGG GAG ATA CGA TAC CTA CGG
OLIGO H6AS 5'

W G Q G T L V T V S S
 3' ACC CCC GTT CCT TGA GAC CAG TGG CAG AGG AGT

FIG. 8 (4 of 4)

*E) OLIGOS TO SYNTHESIZE *adII VI**

OLIGO L1S
ACA GGC GTG CAC TCC GAC ATC CAG ATG ACC CAG TCT CCA TCT TCC CTG TCT GCA TCT GTG GGA GAC CGC CGC GTC ACC ATC

OLIGO L2AS
TGG CTT CTG CTG ATA CCA TGC TAA AGC ATT ATA AAT GTC CTC ACT TGC TCG ACA TGT GAT GGT GAC GCG GTC TCC CAC

OLIGO L3S
GCA TGG TAT CAG CAG AAG CCA GGG AAA GCT CCT AAG CTC CTG ATC TAT AAT ACA GAT ACC TTG CAT ACA GGG GTC CCA

OLIGO L4AS
CAG GCT GCT TAT CGT GAG AGT ATA GTC TGT ACC AGA TCC ACT GCC ACT GAA TCG TGA TGG GAC CCC TGT ATG CAA GGT

OLIGO L5S
ACT CTC ACG ATA AGC AGC CTG CAA CCT GAA GAT TTC GCA ACT TAT TIC TGT CAG CAC TAT TTC CAT TAT CCT CGG

OLIGO L6AS
CAA TCT AGA ATT CTA CTC ACG TTT GAT CTC CAC CTT GGT CCC TTG ACC GAA CGT CCG AGG ATA ATG GAA ATA GTG

*F) OLIGOS TO SYNTHESIZE *adII VH**

OLIGO H1S
ACA GGC GCG CAC TCC GAG GTG CAG CTG GTG GAA AAC CCA GTT CAC ATT GTT GGT TAG TGA GAA GCC AGC GCA GCT GAG GCG CTC AGC TGC

OLIGO H2AS
TCC TGG AGC CTG TCG AAC CCA GTT CTC GCG ACT GAT GGT GAG TGG GTG GGA GCA GTC TGG GCT GGT GGA GCC ACA GAT TAC AAT TCA

OLIGO H3S
AAC TTG TAA GTA AGC TGT GTT CTT GGA GTT GTC GCG ACT GAT GGT GAA TCG GGA TTT GAG AGC TGA ATT GTA ATC TGT GCC TCC

OLIGO H4AS
CAT TTG TAA GTA AGC TGT GTT CTT GGA GTT GTC GCG ACT GAT GGT GAA TCG GGA TTT GAG AGC TGA ATT GTA ATC TGT GCC TCC

OLIGO H5S
AAG AAC ACA GCT TAC TTA CAA ATG AAC AGT CTG CGC GCT GAA GAC ACA GCC GTT TAC TAC TGT GCC AGA GAC GGG GGC TAT AGC

OLIGO H6AS
TGA GCA GAC GGT GAC CAG AGT TCC TTG ACC CCA GCC ATC CAT AGC ATA GAG GGT AGA GCT GTC GCT ACC CCC GTC TCT GGC

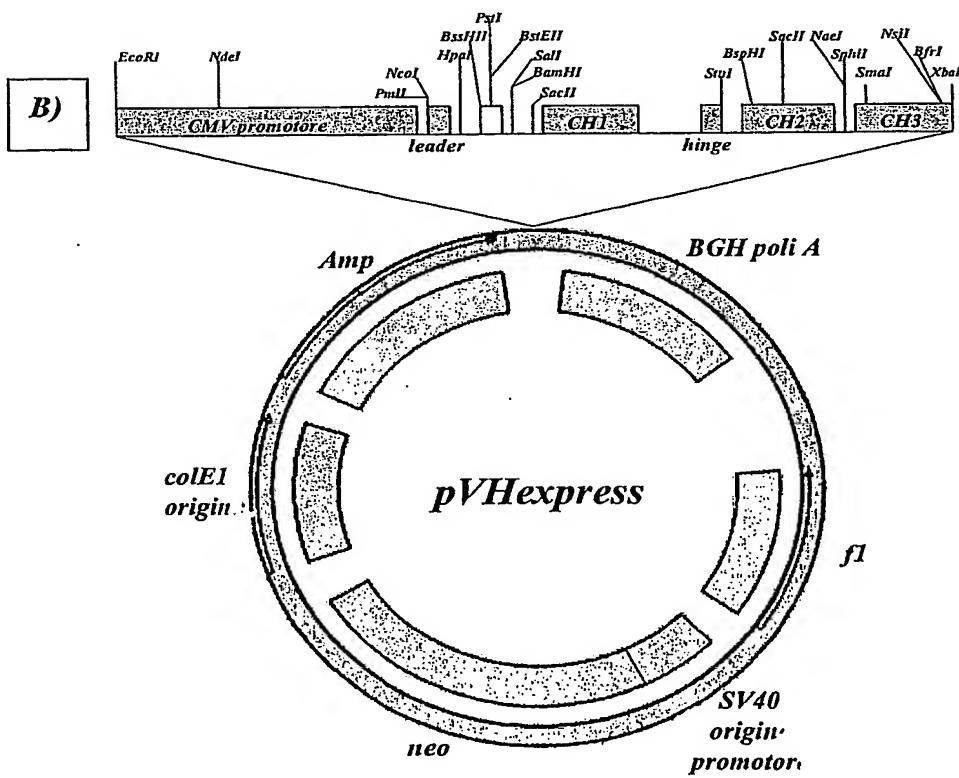
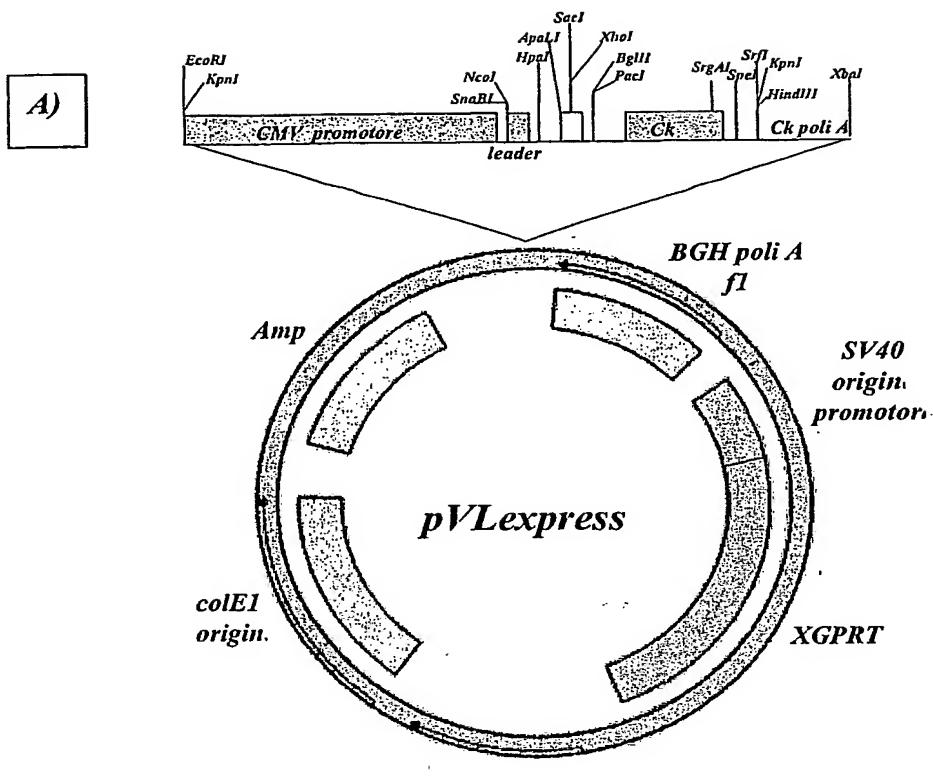
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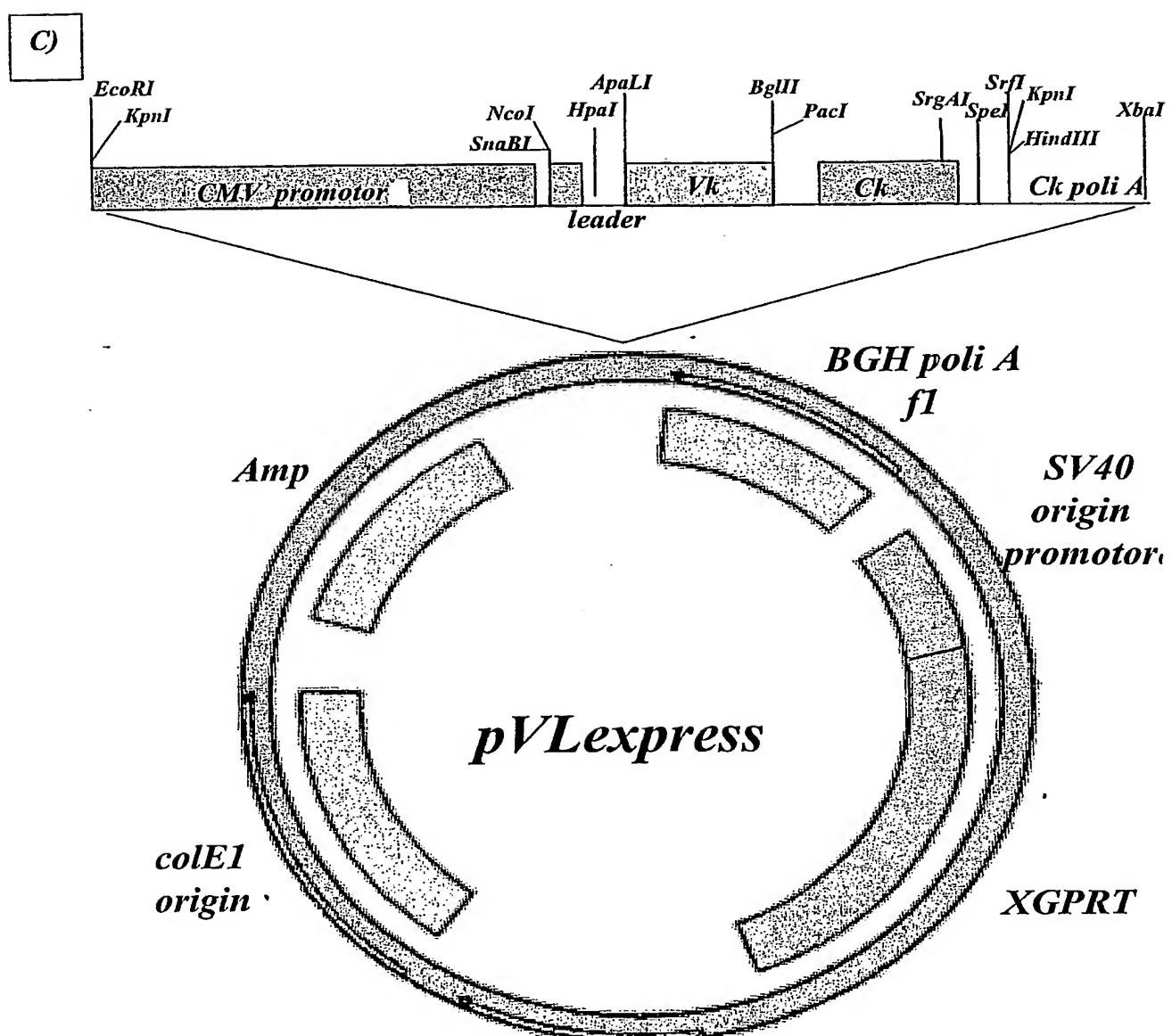
FIG. 9 (2 of 3)

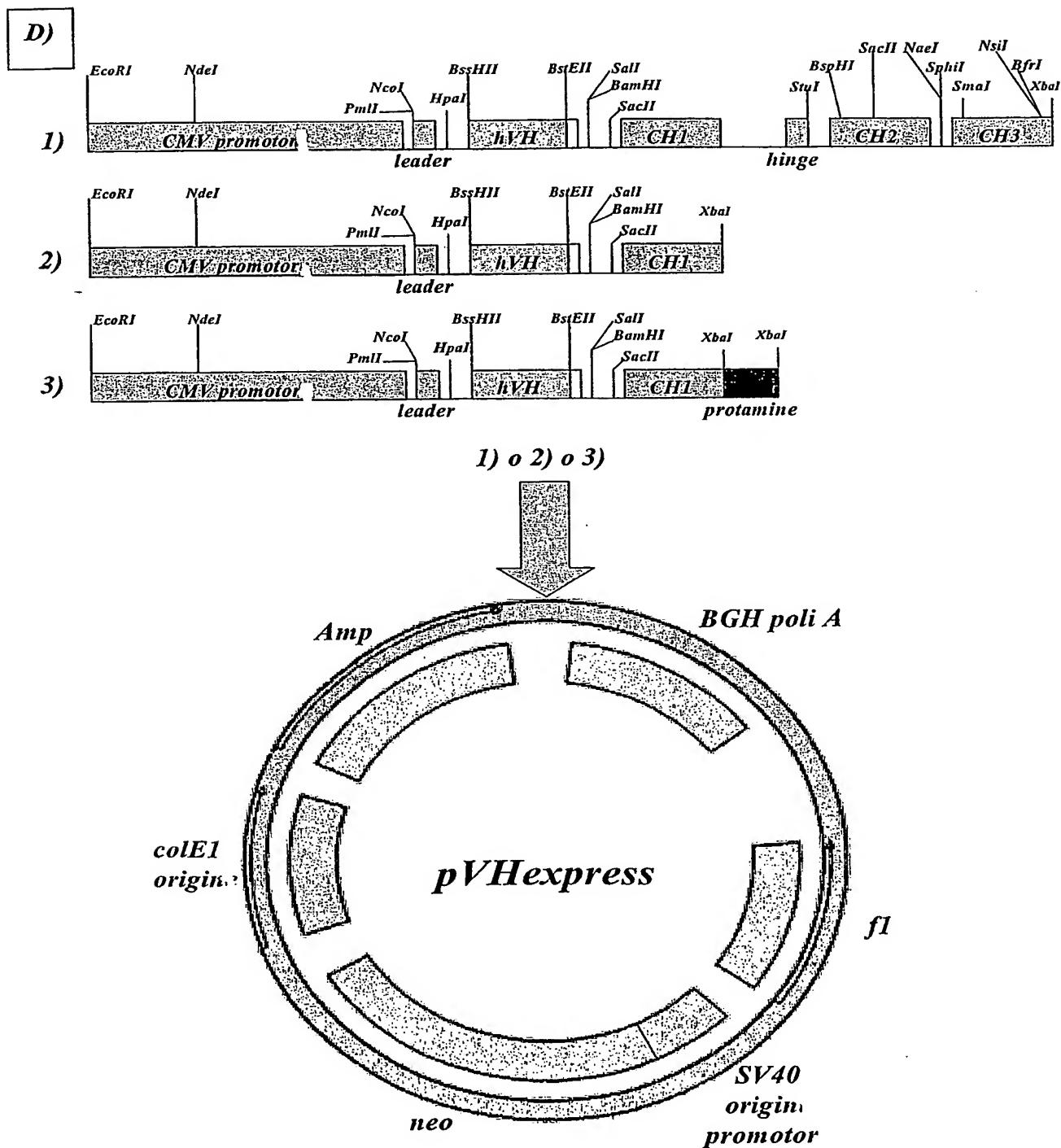
FIG. 9 (3 of 3)

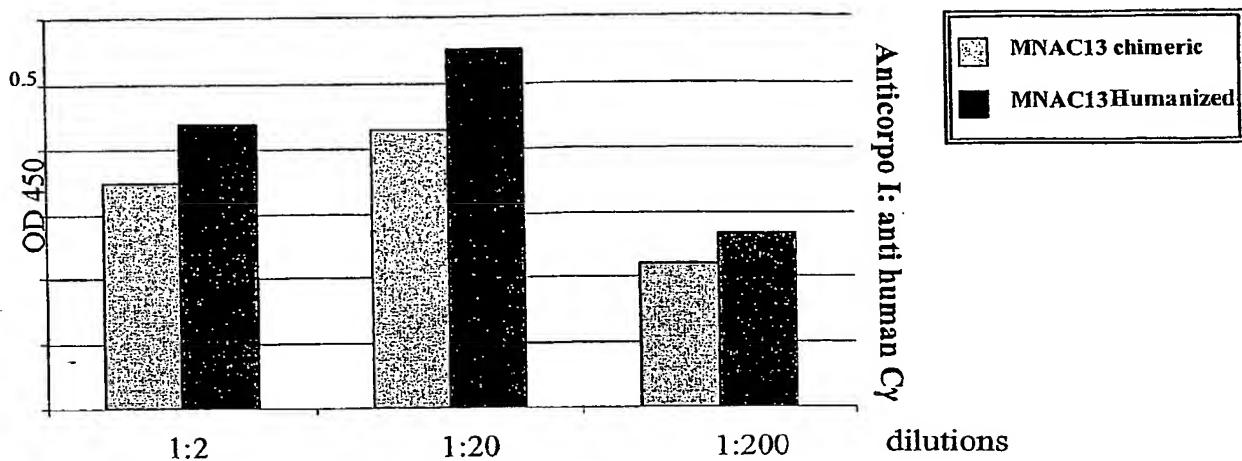
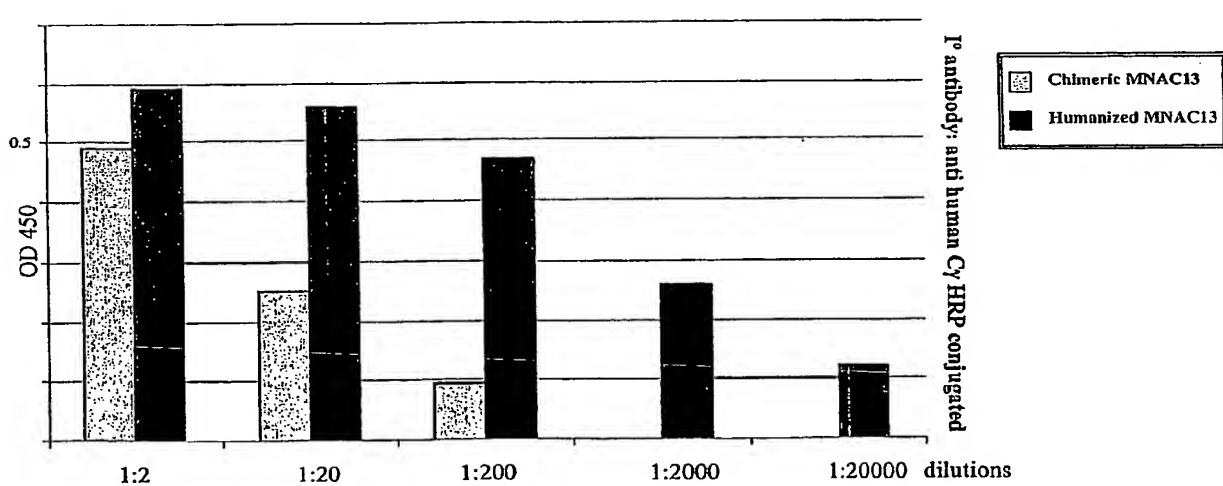
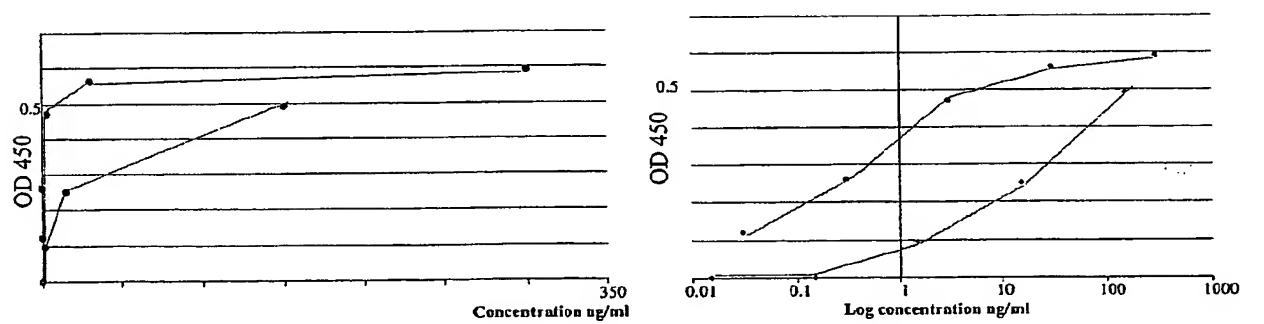
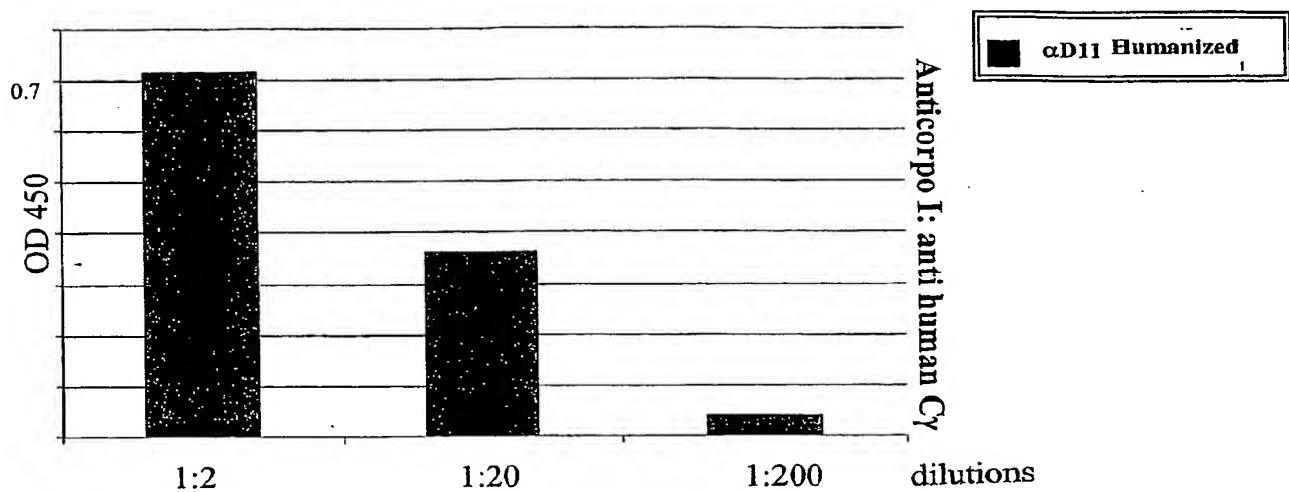
FIG. 10**a) supernatants of transfected COS cells****b) G protein sepharose purified supernatants of transfected COS cells**

FIG. 11**BINDING ACTIVITY TOWARDS NGF**

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